MR SPINE LUMBAR WITHOUT IV CONTRAST

Results

Impression

1. Severe bilateral foraminal and significant recess stenosis at L4-5 with impingement of the exiting L4 nerve roots and transiting L5 nerve roots.
2. Severe bilateral foraminal lateral recess stenosis L5-S1 with impingement the exiting L5 nerve roots and transiting S1 nerve roots.

Electronically Signed By: Sarah Cantrell
12/23/2024 20:44 CDT
Workstation Name: RPXNWKS18

Narrative

MR LUMBAR SPINE WITHOUT IV CONTRAST

INDICATION: Low back pain, cauda equina syndrome suspected

COMPARISON: None

TECHNIQUE: Multiplanar, multisequence MR images of the lumbar spine without contrast.

FINDINGS:

Maintenance of lordosis.

There is fluid signal intensity across the L5-S1 disc space and pathologic fracture of L5 with 20% loss of vertebral body height. Findings are compatible with chronic osteomyelitis seen on prior CT abdomen and pelvis 11/21/2024 with prior laminectomy of L5. Superimposed acute osteomyelitis cannot be definitively excluded and correlation with clinical history is suggested.

Mild disc space height loss at L3-L4 and L4-5.
Moderate disc space height loss at L5-S1.

Conus terminates at L1. Cauda equina nerve roots within normal limits.

No acute findings in the paraspinal soft tissues.

Evaluation of the individual levels demonstrates:

L1/L2: No significant spinal canal or foraminal stenosis.
L2/L3: No significant canal or foraminal narrowing.
L3/L4: Mild diffuse disc bulge. Bilateral facet arthropathy and hypertrophy. Moderate spinal canal stenosis. Moderate bilateral foraminal stenosis.
L4/L5: Diffuse disc bulge with caudally directed central disc extrusion measuring 5 mm in AP dimension and 5 mm in craniocaudal dimension. Bilateral facet arthrosis. Severe bilateral foraminal and subarticular recess stenosis.
L5/S1: Broad-based posterior disc osteophyte which measures 6 mm in AP dimension. Bilateral facet arthrosis. Severe bilateral foraminal lateral recess stenosis.

Ordering provider: Russell Elliott
Reading physician: Sarah C Cantrell
Study date: Dec 23, 2024 8:35 PM
Result date: Dec 23, 2024 8:42 PM
Result status: Final